

Rutgers, The State University of New Jersey
Graduate School of Education
Decision Analysis I

Growth over time; Indexes; Relationships

I

We are going to make believe that the NJASK assessments are aligned from year to year. That is, the assumption is the NJASK perfectly aligns between years.
(content/test)

- 1) Download data for the NJASK 3 for 2008 and NJASK 4 2009
- 2) Select any fifteen schools from any one county and build a new data set by filtering data for both data sets (to the school level) for the following categories
 - a. Total Students, Special Education, and Economically Disadvantaged
 - i. Taking the NJASK for LAL or Math
 1. Scale Scores
 - b. Find and add the percent of students in the school on free and reduced lunch, student absence rate, and suspension rate
 - c. In new columns, standardize all data to z scores
- 3) Using Standardized Scores, create scatter plots (for 2009 only) (not on current spreadsheet – new tabs) to analyze the relationships between student achievement (total students) and all of the different variables listed in step 2b

II

Building a value added index and comparing growth

- 1) Develop an index for both 2008 and 2009 data sets (Table 6-5 is great)
- 2) Determine the total growth of index with all of the variables from a and b from 2008-2009 (are there outliers?)
- 3) What is the relationship between the years of data?

If time permits....data plots